

ONLINE SUPPLEMENT

Title: AiCure Platform (patient-facing application and dashboard)

Supplemental Figure I: AI Platform Used in the Study

Computer vision and neural networks confirm medication ingestion

Real-time data are encrypted and transferred to cloud-based dashboards





HIPAA-compliant facial recognition



Automatic medication identification



Real-time ingestion confirmation



Fraud and duplicate enrollment detection



No video review is needed



Download application onto any smartphone




Analytics allow for pre-emptive intervention



Assistive technology for greater patient engagement

Detailed dosing charts available for each patient displaying data on a pill by pill basis



Data can be exported at any time for patient and site/clinic performance

Study Name	Site ID	Participant ID	Nominal Day in	AiCure	Dosing Window	Dosing Alarm	Start Date of Dose	Start Time of Dose	End Date of Dose	End Time of Dose	Dose Form	Expected Dose	Actual Dose	Self-reported	Skipped	Confirmed by phone	Confirmed at clinic
STUDY01	0101	1	1	15:00-24:00	19:00	1-Sep-15	18:03	1-Sep-15	19:04	19:04	PB	2	2	0	0	0	2
AA-SB-CC	1	1001	2	15:00-24:00	19:00	2-Sep-15	19:01	2-Sep-15	19:02	19:02	PB	2	2	0	0	0	0
AA-SB-CC	1	1001	3	15:00-24:00	19:00	3-Sep-15	19:01	3-Sep-15	19:03	19:03	PB	2	2	0	0	0	0
AA-SB-CC	1	1001	4	15:00-24:00	19:00	4-Sep-15	20:05	4-Sep-15	20:06	20:06	PB	2	1	0	1	0	0
AA-SB-CC	1	1001	5	15:00-24:00	19:00	5-Sep-15	19:54	5-Sep-15	19:56	19:56	PB	2	2	0	0	0	0
AA-SB-CC	1	1001	6	15:00-24:00	21:00	6-Sep-15	21:02	6-Sep-15	21:04	21:04	PB	2	2	0	0	0	0
AA-SB-CC	1	1001	7	15:00-24:00	21:00	7-Sep-15	21:07	7-Sep-15	21:09	21:09	PB	2	2	0	0	0	0
AA-SB-CC	1	1001	8	15:00-24:00	21:00	8-Sep-15	20:15	8-Sep-15	20:16	20:16	PB	2	0	0	2	0	0
AA-SB-CC	1	1002	1	15:00-24:00	20:00	1-Sep-15	20:12	1-Sep-15	20:14	20:14	PB	2	2	0	0	0	0
AA-SB-CC	1	1002	2	15:00-24:00	20:00	2-Sep-15	20:05	2-Sep-15	20:07	20:07	PB	2	2	0	0	0	0
AA-SB-CC	1	1002	3	15:00-24:00	20:00	3-Sep-15	20:09	3-Sep-15	20:10	20:10	PB	2	2	0	0	0	0
AA-SB-CC	1	1002	4	15:00-24:00	20:00	4-Sep-15	20:09	4-Sep-15	20:11	20:11	PB	2	2	1	0	0	0
AA-SB-CC	1	1002	5	15:00-24:00	20:00	5-Sep-15	20:14	5-Sep-15	20:15	20:15	PB	2	2	1	0	0	0
AA-SB-CC	1	1002	6	15:00-24:00	20:00	6-Sep-15	20:22	6-Sep-15	20:23	20:23	PB	2	2	0	0	0	0
AA-SB-CC	1	1002	7	15:00-24:00	20:00	7-Sep-15	20:35	7-Sep-15	20:36	20:36	PB	2	2	0	0	0	0
AA-SB-CC	1	1002	8	15:00-24:00	20:00	8-Sep-15	20:07	8-Sep-15	20:10	20:10	PB	2	2	0	0	0	0